

SEQUENCE LISTING

<110> Rothman, James
Mayhew, Mark
Hoe, Mee

<120> KDEL RECEPTOR INHIBITORS

<130> 31488

<160> 36

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 46

<212> PRT

<213> rat

<400> 1

Gly	Asp	Leu	Ala	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
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Ala	Leu	Gln	Asp	Val	Arg	Glu	Leu	Leu	Arg	Gln	Gln	Val	Lys	Glu	Ile
			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40						45		

<210> 2

<211> 46

<212> PRT

<213> human

<400> 2

Ser	Asp	Leu	Gly	Pro	Gln	Met	Leu	Arg	Glu	Leu	Gln	Glu	Thr	Asn	Ala
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Ala	Leu	Gln	Asp	Val	Arg	Asp	Trp	Leu	Arg	Gln	Gln	Val	Arg	Glu	Ile
			20					25					30		
Thr	Phe	Leu	Lys	Asn	Thr	Val	Met	Glu	Cys	Asp	Ala	Cys	Gly		
		35					40						45		

<210> 3

<211> 46

<212> PRT

<213> mouse

<400> 3

Gly	Glu	Gln	Thr	Lys	Ala	Leu	Val	Thr	Gln	Leu	Thr	Leu	Phe	Asn	Gln
1				5					10					15	
Ile	Leu	Val	Glu	Leu	Arg	Asp	Asp	Ile	Arg	Asp	Gln	Val	Lys	Glu	Met

20 25 30
 Ser Leu Ile Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly
 35 40 45

<210> 4
 <211> 46
 <212> PRT
 <213> human

<400> 4
 Gly Glu Gln Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln
 1 5 10 15
 Ile Leu Val Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met
 20 25 30
 Ser Leu Ile Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly
 35 40 45

<210> 5
 <211> 46
 <212> PRT
 <213> human

<400> 5
 Gly Asp Phe Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln
 1 5 10 15
 Leu Leu Gly Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr
 20 25 30
 Ser Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly
 35 40 45

<210> 6
 <211> 46
 <212> PRT
 <213> xenopus laevis

<400> 6
 Gly Asp Val Ser Arg Gln Leu Ile Gly Gln Ile Thr Gln Met Asn Gln
 1 5 10 15
 Met Leu Gly Glu Leu Arg Asp Val Met Arg Gln Gln Val Lys Glu Thr
 20 25 30
 Met Phe Leu Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly
 35 40 45

<210> 7
 <211> 27
 <212> PRT
 <213> human

<400> 7
 Gln Lys Leu Gln Asn Leu Phe Ile Asn Phe Cys Leu Ile Leu Ile Cys
 1 5 10 15

Leu Leu Leu Ile Cys Ile Ile Val Met Leu Leu
20 25

<210> 8
<211> 9
<212> PRT
<213> human papilloma virus

<400> 8
Leu Leu Leu Gly Thr Leu Asn Ile Val
1 5

<210> 9
<211> 9
<212> PRT
<213> human papilloma virus

<400> 9
Leu Leu Met Gly Thr Leu Gly Ile Val
1 5

<210> 10
<211> 9
<212> PRT
<213> human papilloma virus

<400> 10
Thr Leu Gln Asp Ile Val Leu His Leu
1 5

<210> 11
<211> 9
<212> PRT
<213> human papilloma virus

<400> 11
Gly Leu His Cys Tyr Glu Gln Leu Val
1 5

<210> 12
<211> 9
<212> PRT
<213> human papilloma virus

<400> 12
Pro Leu Lys Gln His Phe Gln Ile Val
1 5

<210> 13
<211> 115
<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat comp

<400> 13

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Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1              5              10              15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Leu Ala Pro Gln Met
      20              25              30
Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Glu
      35              40              45
Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys Asn Thr Val
      50              55              60
Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr Pro Gly Thr
65              70              75              80
Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro
      85              90              95
Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys
      100              105              110
Asp Glu Leu
      115
```

<210> 14

<211> 387

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 14

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aagcttacca tgggaaagtt cactgtggtg gcggcgccgt tgctgctgct gggcgcggtg      60
cgggccgagg gatccagcct ggggtggagac ctagcccccac agatgcttcg agaactccag      120
gagactaatg cggcgctgca agacgtgaga gagctcttgc gacagcaggt caaggagatc      180
accttcctga agaatacggg gatggaatgt gacgcttgcg gaatgcagcc cgcacgcacc      240
cccgggtacta gtccgcagcc gcagccgaaa ccgcagccgc agccgcagcc gcagccgaaa      300
ccgcagccga aaccggaacc ggaagggtacc ggatcatcag aaaaagatga gttgtaggcg      360
gccgcagaat tccatatgca tctcgag                                     387
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<210> 15

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric rat COMP-KDEL

<400> 15

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Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1              5              10              15
```

Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Pro Gln Met
20 25 30
Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp Val Arg Glu
35 40 45
Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys Asn Thr Val
50 55 60
Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr Pro Gly Thr
65 70 75 80
Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro
85 90 95
Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys
100 105 110
Asp Glu Leu
115

<210> 16
<211> 387
<212> DNA
<213> Artificial Sequence

<220>
<223> chimeric rat COMP-KDEL

<400> 16
aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg 60
cgggccgagg gatccagcct ggggtggagac tggtgtccac agatgcttcg agaactccag 120
gagactaatg cggcgctgca agacgtgaga gagctcttgc gacagcaggt caaggagatc 180
accttcctga agaatacggg gatggaatgt gacgcttgcg gaatgcagcc cgcacgcacc 240
cccgggtacta gtccgcagcc gcagccgaaa ccgcagccgc agccgcagcc gcagccgaaa 300
ccgcagccga aaccggaacc ggaagggtacc ggatcatcag aaaaagatga gttgtaggcg 360
gccgcagaat tccatagca tctcgag 387

<210> 17
<211> 105
<212> PRT
<213> Artificial Sequence

<220>
<223> chimeric mouse TSP3-KDEL

<400> 17
Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
1 5 10 15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Lys Ala Leu
20 25 30
Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val Glu Leu Arg Asp
35 40 45
Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile Arg Asn Thr Ile
50 55 60
Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro Lys Pro Gln Pro
65 70 75 80

Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly
85 90 95
Thr Gly Ser Ser Glu Lys Asp Glu Leu
100 105

<210> 18
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> chimeric mouse TSP3-KDEL

<400> 18
aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg 60
cgggccgagg gatccagcct ggggtggagac tggtgtaagg cattgggtcac ccagctcacc 120
ctcttcaacc agatcctagt ggagcttcgg gacgacatcc gagaccaggt gaaggaaatg 180
tcactcatcc ggaacacccat catggagtgt caggtgtgctg gtccgcagcc gcagccgaaa 240
ccgcagccgc agccgcagcc gcagccgaaa ccgcagccga aaccggaacc ggaagggtacc 300
ggatcatcag aaaaagatga gttgtaggcg gccgcagaat tccatatgca tctcgag 357

<210> 19
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> chimeric mouse TSP3-KDEL

<400> 19
Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
1 5 10 15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Glu Gln
20 25 30
Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val
35 40 45
Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile
50 55 60
Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro
65 70 75 80
Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
85 90 95
Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
100 105

<210> 20
<211> 369
<212> DNA
<213> Artificial Sequence

<220>

<223> chimeric mouse TSP3-KDEL

<400> 20

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aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg      60
cgggccgagg gatccagcct ggggtggagac tggtgtgggg agcagaccaa ggcattggtc      120
acccagctca ccctcttcaa ccagatccta gtggagcttc gggacgacat ccgagaccag      180
gtgaaggaaa tgtcactcat ccggaacacc atcatggagt gtcagggtgtg cgggccgcag      240
ccgcagccga aaccgcagcc gcagccgcag ccgcagccga aaccgcagcc gaaaccggaa      300
ccggaaggta ccggatcatc agaaaaagat gagttgtagg cggccgcaga attccatatg      360
catctcgag                                     369
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<210> 21

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 21

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Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1          5          10          15
Val Arg Ala Glu Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Asp Val
 20          25          30
Ser Arg Gln Leu Ile Gly Gln Ile Thr Gln Met Asn Gln Met Leu Gly
 35          40          45
Glu Leu Arg Asp Val Met Arg Gln Gln Val Lys Glu Thr Met Phe Leu
 50          55          60
Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly Pro Gln Pro Gln Pro
 65          70          75          80
Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85          90          95
Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
100          105
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<210> 22

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> chimeric Xenopus laevis TSP4-KDEL

<400> 22

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aagcttacca tgggaaagtt cactgtggtg gcggcggcgt tgctgctgct gggcgcggtg      60
cgggccgagg gatccagcct ggggtggagac tggtgtgggtg acgtcagcag acagttgatt      120
ggccagataa cccaaatgaa tcagatgctg ggagagctcc gagatgtcat gagacagcag      180
gtgaaagaga ccatgttctt gagaaacacc attgcagaat gccaggcctg tggccccgcag      240
ccgcagccga aaccgcagcc gcagccgcag ccgcagccga aaccgcagcc gaaaccggaa      300
ccggaaggta ccggatcatc agaaaaagat gagttgtagg cggccgcaga attccatatg      360
catctcgag                                     369
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<210> 23
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chimeric human COMP-KDEL

<400> 23
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser
 1 5 10 15
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Ser Asp Leu
 20 25 30
 Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln
 35 40 45
 Asp Val Arg Asp Trp Leu Arg Gln Gln Val Arg Glu Ile Thr Phe Leu
 50 55 60
 Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Pro Gln Pro Gln Pro
 65 70 75 80
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85 90 95
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 24
 <211> 372
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human COMP-KDEL

<400> 24
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 gctgccaaaa aaggatccag cctgggtgga gactgttggt cagacctggg cccgcagatg 120
 cttcggaagc tgcaggaaac caacgcggcg ctgcaggacg tgcgggaactg gctgcggcag 180
 caggtcaggg agatcacgtt cctgaaaaac acggtgatgg agtgtgacgc gtgcggggccg 240
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcgggccgc agaattccat 360
 atgcattctc ag 372

<210> 25
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chimeric human PLB-KDEL

<400> 25
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser

1 5 10 15
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gln Lys Leu
 20 25 30
 Gln Asn Leu Phe Ile Asn Phe Cys Leu Ile Leu Ile Cys Leu Leu Leu
 35 40 45
 Ile Cys Ile Ile Val Met Leu Leu Pro Gln Pro Gln Pro Lys Pro Gln
 50 55 60
 Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu
 65 70 75 80
 Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 85 90

<210> 26
 <211> 315
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human PLB-KDEL

<400> 26
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 gctgccaaaa aaggatccag cctgggtgga gactgttgtc aaaagctaca gaatctatct 120
 atcaatttct gtctcatctt aatatgtctc ttgctgatct gtatcatcgt gatgctttctc 180
 ccgcagccgc agccgaaacc gcagccgcag ccgcagccgc agccgaaacc gcagccgaaa 240
 ccggaaccgg aaggtaccgg atcatcagaa aaagatgagt ttagggcggc cgcagaattc 300
 catatgcac tcgag 315

<210> 27
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP3-KDEL

<400> 27
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Val Cys Ser
 1 5 10 15
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Glu Gln
 20 25 30
 Thr Lys Ala Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val
 35 40 45
 Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile
 50 55 60
 Arg Asn Thr Ile Met Glu Cys Gln Val Cys Gly Pro Gln Pro Gln Pro
 65 70 75 80
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85 90 95
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 28
 <211> 372
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP3-KDEL

<400> 28
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 gctgccaaaa aaggatccag cctgggtgga gactgtgtg gggagcagac caaggcattg 120
 gtcaccagc tcaccctctt caaccagatc ctagtgagc ttcgggacga catccgagac 180
 caggtgaagg aaatgtcact catccggaac accatcatgg agtgtcaggt gtgcggtccg 240
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360
 atgcatctcg ag 372

<210> 29
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP4-KDEL

<400> 29
 Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Ala Val Cys Ser
 1 5 10 15
 Ala Ala Lys Lys Gly Ser Ser Leu Gly Gly Asp Cys Cys Gly Asp Phe
 20 25 30
 Asn Arg Gln Phe Leu Gly Gln Met Thr Gln Leu Asn Gln Leu Leu Gly
 35 40 45
 Glu Val Lys Asp Leu Leu Arg Gln Gln Val Lys Glu Thr Ser Phe Leu
 50 55 60
 Arg Asn Thr Ile Ala Glu Cys Gln Ala Cys Gly Pro Gln Pro Gln Pro
 65 70 75 80
 Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Lys Pro Gln Pro Lys Pro
 85 90 95
 Glu Pro Glu Gly Thr Gly Ser Ser Glu Lys Asp Glu Leu
 100 105

<210> 30
 <211> 372
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chimeric human TSP4-KDEL

<400> 30
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gctgccaaaa aaggatccag cctgggtgga gactgttggtg gggactttta cccggcagttc 120
 ttgggtcaaa tgacacaatt aaaccaactc ctgggagagg tgaaggacct tctgagacag 180
 caggttaagg aaacatcatt tttgcgaaac accatagctg aatgccaggc ttgcggtccg 240
 cagccgcagc cgaaaccgca gccgcagccg cagccgcagc cgaaaccgca gccgaaaccg 300
 gaaccggaag gtaccggatc atcagaaaaa gatgagttgt aggcggccgc agaattccat 360
 atgcatctcg ag 372

<210> 31
 <211> 8
 <212> PRT
 <213> unknown

<400> 31
 Tyr Thr Ser Glu Lys Asp Glu Leu
 1 5

<210> 32
 <211> 8
 <212> PRT
 <213> unknown

<400> 32
 Leu Asn Tyr Phe Asp Asp Glu Leu
 1 5

<210> 33
 <211> 9
 <212> PRT
 <213> unknown

<400> 33
 Cys Asp Cys Arg Gly Asp Cys Phe Cys
 1 5

<210> 34
 <211> 134
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KDEL/myc

<400> 34
 Met Gly Lys Phe Thr Val Val Ala Ala Ala Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Val Arg Ala Glu Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
 20 25 30
 Tyr His Pro Asn Ser Thr Cys Gly Ser Ser Leu Gly Gly Asp Cys Cys
 35 40 45
 Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln Asp
 50 55 60

Val Arg Glu Leu Leu Arg Gln Gln Val Lys Glu Ile Thr Phe Leu Lys
65 70 75 80
Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Pro Ala Arg Thr
85 90 95
Pro Gly Thr Ser Pro Gln Pro Gln Pro Lys Pro Gln Pro Gln Pro Gln
100 105 110
Pro Gln Pro Lys Pro Gln Pro Lys Pro Glu Pro Glu Gly Thr Gly Ser
115 120 125
Ser Glu Lys Asp Glu Leu
130

<210> 35
<211> 444
<212> DNA
<213> Artificial Sequence

<220>
<223> KDEL-myc

<400> 35
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cgggccgagg gateccgaaca aaaacttatt tctgaagaag acttgtacca cccaaactca 120
acatgcggat ccagcctggg tggagactgt tgtccacaga tgcttcgaga actccaggag 180
actaatgcgg cgctgcaaga cgtgagagag ctcttgcgac agcaggtcaa ggagatcacc 240
ttcctgaaga atacggtgat ggaatgtgac gcttgcgga tgcagcccg acgcaccccc 300
ggtactagtc cgcagccgca gccgaaaccg cagccgcagc cgcagccgca gccgaaaccg 360
cagccgaaac cggaaccgga aggtaccgga tcatcagaaa aagatgagtt gtaggcggcc 420
gcagaattcc atatgcatct cgag 444

<210> 36
<211> 10
<212> PRT
<213> human myc tag

<400> 36
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10